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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/786,280	02/24/2004	Ahmad Waleh	D-95013A1A	3880
7590 11/01/2007 David W. Collins			EXAMINER	
Intellectual Pro		MARKOFF, ALEXANDER		
Suite 100		ART UNIT	PAPER NUMBER	
512 E. Whitehouse Canyon Road Green Valley, AZ 85614			1792	
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	-		MAIL DATE	DELIVERY MODE
			11/01/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/786,280	WALEH ET AL.		
Office Action Summary	Examiner	Art Unit		
	Alexander Markoff	1792		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION B6(a). In no event, however, may a reply be time rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	l. ely filed the mailing date of this communication. O (35 U.S.C. § 133).		
Status .				
Responsive to communication(s) filed on <u>21 Au</u> This action is FINAL . 2b)⊠ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro			
Disposition of Claims				
4) Claim(s) 1-30 is/are pending in the application. 4a) Of the above claim(s) 5,8-10,15-17 and 26- 5) Claim(s) is/are allowed. 6) Claim(s) 1-4,6,7,11-14,18-25,29 and 30 is/are is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 11.	28 is/are withdrawn from conside rejected. r election requirement. r. epted or b) objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is objected to by the education is required if the drawing(s) is objected to by the education is required if the drawing(s) is objected to by the education is required if the drawing(s) is objected to by the education is required if the drawing(s) is objected to by the education is required if the drawing(s) is objected to by the education is required if the drawing(s) is objected to by the education is required if the drawing(s) is objected to by the education is required if the drawing(s) is objected to by the education is required if the drawing(s) is objected to by the education is required if the drawing(s) is objected to by the education is required in the drawing(s) is objected to by the education is required in the drawing(s) is objected to by the education is required in the drawing(s) is objected to by the education is required in the drawing(s) is objected to by the education is required in the drawing(s) is objected to by the education is required in the drawing(s) is objected to by the education is required in the drawing(s) is objected to by the education is required in the drawing(s) is objected to be added to the drawing its objected to the drawing its objected to be added to the drawing its objected to the drawing its objected to be added to the drawing its objected to the drawing	Examiner. e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some colon None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 2/24/04.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate		

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DETAILED ACTION

Election/Restrictions

- 1. Applicant's election without traverse of claims 1-4, 6, 7,11-14, 18-25 and 29-30, which are readable on the previously elected species, in the reply filed on 8/21/07 is acknowledged.
- 2. Claims 5, 8-10, 15-17 and 26-28 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 8/21/07.

Double Patenting

3. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

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4. Claims 1-4, 6, 7,11-14, 18-25 and 29-30 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-31 of U.S. Patent No. 5,763,016. Although the conflicting claims are not identical, they are not patentably distinct from each other because despite difference in preamble of the claims and wording, the claims of the patent recite the claimed manipulative steps.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 7. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.

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- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 8. Claims 1-4, 6, 7,11-14, 18-25 and 29-30 rejected under 35 U.S.C. 103(a) as being unpatentable over Gupta et al (US Patent No 5,037,506) in view of Mayer et al (US Patent No 3,893,869) and further in view of Nachshon (US Patent No 5,114,834), Egelsberg (Laser-Assisted Cleaning Proves Promising), WO 97/17164, WO 9507152, Engelsberg et al (US Patents 5,643,472 and 5,531,857) and Engelsberg (US Patent No 5,024,968).

Gupta et al teach a method substantially as claimed except for the last laser cleaning step and the use of ultrasonic/megasonic during the solvent treatment.

However, precise cleaning and photoresists removal by lasers was conventional in the art, as evidenced by Nachshon, Egelsberg, Egelsberg et al, WO 97/17164, and WO 9507152.

It would have been obvious to an ordinary artisan at the time the invention was made to use laser processing in the method of Gupta et al after the solvent rinse with reasonable expectation of success in order to more completely remove contamination, because the prior art teaches such step as a conventional and desirable.

The use of ultrasonic/megasonic during liquid treatment of semiconductor wafers was notoriously well-known and conventional in the art. See at least Mayer et al.

It would have been obvious to an ordinary artisan at the time the invention was made to use ultrasonic/megasonic in the method of Gupta et al in order to enhance solvent treatment, because such enhancement was conventional in the industry.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander Markoff whose telephone number is 571-272-1304. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Barr can be reached on 571-272-1414. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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